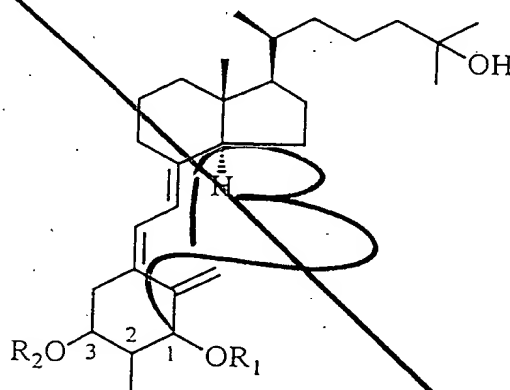


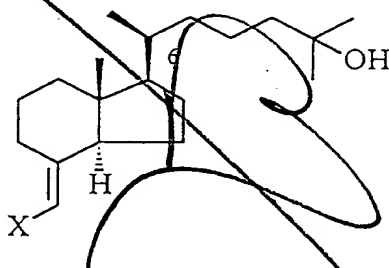
CLAIMS

1. 1, 25-dihydroxy-2-methylvitamin D₃ derivatives expressed by the following ~~general~~ formula (I),



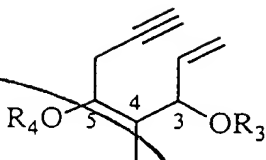
wherein each of R₁ and R₂ is independently a hydrogen atom or a tri(C₁ to C₇ alkyl)silyl group ^{and wherein} the configurations of asymmetric carbons at the 1-, 2- and 3-positions are each independently α-configuration or β-configuration.

2. A method for producing a vitamin D₃ derivative described in the claim 1, wherein an exo-methylene compound expressed by the following ~~general~~ formula (II),



wherein X is a bromine atom or an iodine atom, is made to react with an ene-yne compound expressed by the following general formula (III),

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{wherein R₃ and R₄ are each independently a hydrogen atom or a tri(C₁ to C₇ hydrocarbon)silyl group} in the presence of a palladium catalyst, and optionally the protecting group of the tri(C₁ to C₇ hydrocarbon)silyl group is removed.

[illegible]

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